COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219-2000
VirginiaDOT.org

GREGORY A. WHIRLEY
ACTING COMMISSIONER

MEMORANDUM

TO: New Products Applicants

FROM: VDOT New Products Committee

SUBJECT: New Products Application

The Virginia Department of Transportation's (VDOT's) New Product Evaluation Program is intended for products that are not covered by specifications, plans, or other Department standards. The information you provide in the attached application will be used for a preliminary evaluation to determine if it meets the qualifications of a New Product.

You will be notified with the decision of VDOT's New Products Committee. If your product is chosen for further review, you may be contacted for additional information. If your product is found to be classified by a specification or standard, you will be directed to the appropriate VDOT personnel. This procedure is designed to aid your company as well as VDOT in a thorough review with a prompt response.

Please attach trade literature, test data, Materials Safety Data Sheets, product specifications, instructions, and guarantee. Please send a minimum of five copies of color photographs, pamphlets, booklets, binders or other professionally produced materials.

Send application and attachments to:

Virginia Department of Transportation
Materials Division
1401 East Broad Street
Richmond, VA 23219
Attn: Ginger Bogan

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1906 - 2006

GENERAL, NON-SPECIFIC HAZARDOUS MATERIALS REQUIREMENTS

Unless specific criteria has been established for the product/material category, new products/materials that will be applied to VDOT Right of Way shall meet the following criteria.

Potential Waste Characterization

No product that is applied to or placed on the land (i.e., Used in a Manner Constituting Disposal) shall exhibit the toxic metal, volatile, and semi-volatile concentrations of constituents identified as a characteristic hazardous waste per Code of Federal Regulations, Title 40, Part 261 (40 CFR 261), Subpart C. The vendor will be asked for information indicating that the product/material cannot be characterized as such. Specific information regarding these hazardous waste characteristics and the laboratory tests that must be utilized to make such determinations can be found in 40 CFR 261.24.

Products exhibiting the ignitable and corrosive characteristics as defined in 40 CFR 261.21 and 261.22, respectively, will be evaluated on a case-by-case basis.

The hazardous waste constituents applied to or placed on the land exceeding the concentrations (mg/L) listed below are prohibited, unless otherwise specified by an existing, approved standard or unless an alternate equivalent product is not commercially and reasonably available.

Arsenic	5.0
Barium	100.0
Benzene	0.5
Cadmium	1.0
Carbon tetrachloride	0.5
Chlorobenzene	100.0
Chloroform	6.0
Chromium	5.0
Cresols (o, m, p)	200.0
1,4-Dichlorobenzene	7.5

1,2-Dichloroethylene	0.5
1,1-Dichloroethylene	0.7
2,4-Dinitrotoluene	0.13
Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Hexachloroethane	3.0
Lead	5.0
Mercury	0.2
Methyl ethyl ketone	200.0
Nitrobenzene	2.0

Pentachlorophenol	100.0
Pyridine	5.0
Selenium	1.0
Silver	5.0
Tetrachloroethylene	0.7
Trichloroethylene	0.5
2,4,5-Trichlorophenol	400.0
2,4,6-Trichlorophenol	2.0
Vinyl chloride	0.2

New products and/or materials containing the following chemical constituents from the "Hazardous Waste solvents" list greater than or equal to 10% are prohibited.

Acetone
Benzene
Butanol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Cresols
Cresylic acid
Cyclohexanone
Dichlorobenzene
2-Ethoxyethanol

Ethyl acetate
Ethyl benzene
Ethyl ether
Isobutanol
Methanol
Methylene chloride
Methyl ethyl ketone
Methyl isobutyl ketone
Nitrobenzene
2-Nitropropane
Pyridine

Tetrachloroethylene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
1,1,2-Trichloro-1,2,2-trifluoroethane
Trichlorofluoromethane
Xylene
other chlorinated fluorocarbons

Miscellaneous Chemical Constituents

New products and/or materials containing chemical constituents in any concentration from USEPA's 31 Priority Chemicals or USEPA's PBT (Persistant, Bioaccumulative, Toxic) chemicals list are prohibited, unless otherwise specified by an existing, approved standard or unless an alternate equivalent product is not commercially and reasonably available.

Acenaphthene	Hexachlorobenzene	Phenanthrene
Acenaphthylene	Hexachlorobutadiene	Polychlorinated biphenyls (PCBs)
Aldrin	Hexachlorocyclohexane	Polycyclic aromatic compounds (PACs)
Anthracene	Hexachloroethane	
Benzo(g,h,i)perylene	Isodrin	Polyaromatic compounds (PAHs)
4-Bromophenyl phenyl ether	Lead	Pyrene
Cadmium	Mercury	Tetrabromobisphenol A
Chlordane	Methoxychlor	1,2,4,5-Tetrachlorobenzene
Dibenzofuran	Naphthalene	Toxaphene
Dioxin and Furan compounds	Octachlorostyrene	1,2,4-Trichlorobenzene
Endosulfan	Pendimethalin	2,4,5-Trichlorophenol
Fluorene	Pentachlorobenzene	Trifluralin
Heptachlor	Pentachloronitrobenzene	
Heptachlor epoxide	Pentachlorophenol	

New products and/or materials containing the following chemical constituents from the joint EPA-OSHA carcinogenic chemicals list in concentrations greater than or equal to 0.1% are prohibited, unless otherwise specified by an existing, approved standard or unless an alternate equivalent product is not commercially and reasonably available.

Acetaldehyde	Catechol	2,4-D isopropyl ester
Acetamide	Chlorendic acid	2,4-DP
2-Acetylaminofluorene	p-Chloroaniline	2,4-D propylene glycol butyl ether ester
Acrylamide	Chloroform	
Acrylonitrile	bis-chloromethyl ether	2,4-D sodium salt
2-Aminoanthraquinone	Chloromethyl methyl ether	2,4-Diaminoanisole
4-Aminoazobenzene	3-Chloro-2-methyl-1-propene	4,4'-Diaminodiphenyl ether
4-Aminodiphenyl	Chlorophenol compounds	2,4-Diaminotoluene
1-Amino-2-methylanthraquinone	Chloroprene	Diaminotoluene (mixed isomers)
Amitrole	Chlorothalonil	Dibenz(a,h)acridine
o-Anisidine	p-Chloro-o-toluidine	Dibenz(a,j)acridine
o-Anisidine hydrochloride	Chromium compounds	Dibenz[a,h]anthracene
Arsenic compounds	C.I. Acid Red 114	7H–Dibenzo(c,g) carbazole
Asbestos (friable)	C.I. Direct Black 38	Dibenzo(a,e)pyrene
Benz[a]anthracene	C.I. Direct Blue 6	Dibenzo(a,h)pyrene
Benzene	C.I. Direct Brown 95	Dibenzo(a,l)pyrene
Benzidine	C.I. Food Red 5	1,2-Dibromo-3-chloropropane
Benzo(b)fluoranthene	C.I. Solvent Yellow 3	1,2-Dibromoethane
Benzo(j)fluoranthene	Cobalt compounds	1,4-Dichlorobenzene
Benzo(k)fluoranthene	Creosote	Dichlorobenzene (mixed isomers)
Benzo(rst)pentaphene	p-Cresidine	3,3'-Dichlorobenzidine
Benzo[a]pyrene	Cupferron	3,3'-Dichlorobenzidine dihydrochloride
Benzoic trichloride	2,4-D butoxyethyl ester	
Beryllium	2,4-D butyl ester	3,3'-Dichlorobenzidine sulfateDichlorobromomethane
Bis(chloromethyl) ether	2,4-D chlorocrotyl ester	
1,3-Butadiene	2,4-D 2-ethylhexyl ester	1,2-Dichloroethane
1,2-Butylene oxide	2,4-D 2-ethyl-4-methylpentyl ester	Dichloromethane
Carbon tetrachloride	2,4-D	1,3-Dichloropropene

1,3-Dichloropropylene
Dichlorvos
Diepoxybutane
Di(2-ethylhexyl) phthalate
Diethyl sulfate
Diglycidyl resorcinol ether
Dihydrosafrole
3,3'-Dimethoxybenzidine
3,3'-Dimethoxybenzidine dihydrochloride
3,3'-Dimethoxybenzidine hydrochloride
4-Dimethylaminoazobenzene
7,12-Dimethylbenz[a]anthracene
3,3'-Dimethylbenzidine
3,3'-Dimethylbenzidine dihydrochloride
3,3'-Dimethylbenzidine dihydrofluoride
Dimethylcarbamyl chloride
1,1-Dimethyl hydrazine
Dimethyl sulfate
2,4-Dinitrotoluene
2,6-Dinitrotoluene
1,4-Dioxane
1,2-Diphenylhydrazine
Epichlorohydrin
Ethyl acrylate
Ethyl benzene
Ethyleneimine
Ethylene oxide
Ethylene thiourea
Formaldehyde
Hexamethylphosphoramide
Hydrazine
Hydrazine sulfate

1,2,3-Indeno(cd)pyrene
Lead; Inorganic lead compounds
Lindane
Mecoprop
Methoxone
Methoxone sodium salt
Methyl chloromethyl ether
5–Methylchrysene
4,4'-Methylenebis (2-chloroaniline)
4,4'-Methylenebis (N,N-dimethyl) benzeneamine
4,4'-Methylenedianiline
Michler's ketone
Mustard gas
alpha-Naphthylamine
beta-Naphthylamine
Nickel; nickel compounds
Nitrilotriacetic acid
4-Nitrobiphenyl
Nitrobenzene
Nitrofen
Nitrogen mustard
4-Nitrobiphenyl
2-Nitropropane
1-Nitropyrene
N-Nitrosodi-n-butylamine
N-nitrosodimethylamine
N-Nitrosodiethylamine
Nitrosodimethylamine
N-Nitrosodi-n-propylamine
N-Nitroso-N-ethylurea
N-Nitroso-N-methylurea
N-Nitrosomethylvinylamine
N-Nitrosomorpholine
N-Nitrosonornicotine

N-Nitrosopiperidine
Phenytoin
Polybrominated biphenyls (PBBs)
Polychlorinated alkanes (C12, 60% chlorinated)
Potassium bromate
Propane sultone
beta-propiolactone
Propyleneimine
Propylene oxide
Safrole
Sodium o-phenylphenoxide
Styrene
Styrene oxide
2,3,7,8-Tetrachlorodibenzo-p-dioxin
Tetrachloroethylene
Thioacetamide
4,4'-Thiodianiline
Thiourea
Toluene-2,4-diisocyanate
Toluene-2,6-diisocyanate
o-Toluidine
o-Toluidine hydrochloride
Trichloroethylene
2,4,6-Trichlorophenol
1,2,3-Trichloropropane
2,3-Tris(dibromopropyl)phosphate
Trypan blue
Urethane
Vinyl acetate
Vinyl bromide
Vinyl chloride
2,6-Xylidine

If the new products and/or materials have a potential to impact a waterway, the vendor must supply data or other technical information indicating that the use or application will not cause a measurable impact. This evaluation will be based on the values outlined in the table below. The acute freshwater and saltwater Criteria Maximum Concentration values from the USEPA's National Recommended Water Quality Criteria and Virginia DEQ's Water Quality Standards (9 VAC 25-260) will be used for this determination.

Aluminum- 750 µg/L Freshwater
Arsenic- 340 µg/L Freshwater; 69 µg/L Saltwater
Chloride- 860,000 µg/L Freshwater
Chlorine- 19.0 µg/L Freshwater; 13.0 µg/L Saltwater
Chloropyrifos- 0.083 µg/L Freshwater; 0.011 µg/L Saltwater
Chromium (III)- 570.0 µg/L Freshwater
Chromium (VI)- 16.0 µg/L Freshwater; 1,100.0 µg/L Saltwater
Copper- 13.0 µg/L Freshwater; 4.8 µg/L Saltwater
Cyanide- 22.0 µg/L Freshwater; 1.0 µg/L Saltwater
4,4'-DDT- 1.1 µg/L Freshwater; 0.13 µg/L Saltwater

Dieldrin- 0.24 µg/L Freshwater; 0.71 µg/L Saltwater
Endrin 0.086 µg/L Freshwater; 0.037 µg/L Saltwater
Lindane- 0.95 µg/L Freshwater; 0.16 µg/L Saltwater
Nickel- 180.0 µg/L Freshwater (DEQ); 74.0 µg/L Saltwater
Parathion- 0.65 µg/L Freshwater
Selenium- 20.0 µg/L Freshwater (DEQ); 290.0 µg/L Saltwater
Silver- 3.2 µg/L Freshwater; 1.9 µg/L Saltwater
Tributyltin- 0.46 µg/L Freshwater; 0.37 µg/L Saltwater
Zinc- 120.0 µg/L Freshwater; 90.0 µg/L Saltwater

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For Office Use Only
VDOT Number:_____
Date Received:_____
Assigned Division(s):_____

Virginia Department of Transportation
Preliminary Information for Product Evaluation

The following information is to be included in a submittal package of no more than three pages.

Product Name: _____ **Date: _____**

Manufacturer: _____ **Phone Number: _____**

Address: _____

Contact Person: _____ **Phone Number: _____**

Address: _____

Email Address: _____ **Fax Number: _____**

List specific AASHTO, ASTM, MUTCD, requirements the product meets. _____

Has this product been evaluated (or currently under evaluation)by the National Transportation Product Evaluation Program, (NTPEP)? _____ NTPEP Submittal and Report Number _____

Has the product been submitted to another division within the Department? If so, provide contact information. _____

Has the product been approved for use by other agencies/states? If so, provide contact information. _____

Briefly describe when, where, and how the product would be used as well as the benefits for allowing the use of this type of product. If applicable, describe VDOT's current method of performing such functions. **Product brochures, test reports and manuals will not be accepted in lieu of application. _____**